

# **MAIN DRAINAGE SYSTEM CHECK SHEET** **FOR USS \_\_\_\_\_** **DATE: \_\_\_\_\_**

REF: (A) PMS Eductor System Valve Leak Test [See Table 1 Below]  
 (B) PMS 5000/005 Valve & Valve Operators [See Table 2 Below]  
 (C) NSTM 079 VOL-II  
 (D) NSTM 505  
 (E) Ships EOSS  
 (F) Ship's DC BOOK  
 (G) CNSF 181716ZMAR03  
 (H) Joint Fleet Maintenance Manual (JFMM)

	IAW	SAT/ UNSAT	SAT/ UNSAT	SAT/ UNSAT	SAT/ UNSAT	SAT/ UNSAT	SAT/ UNSAT	SAT/ UNSAT
<b>COMPARTMENT NUMBER</b>								
<b>A. HYDRAULIC REMOTE VALVE OPERATING STATION INSPECTION:</b>								
1. Is MVHC hydraulic reservoir at proper level [greater than ¾ full required]?	5000/006, MRC 2M-1							
2. Were the valve position indicator lights operational?	5000/005, MRC A-4							
3. Is proper activation handle/crank located at MVHC station?								
4. Was relief valve tested and set?	5000/013 72M-2, 72M-3							
5. Was the MVHC system leaking hydraulic fluid?								
<b>A. MAIN DRAIN EDUCTOR SEA-TO-SEA OPERATIONAL DEMONSTRATION:</b>								
1. Ensure all suction cutout valves, bulkhead cutout valves and bilge pocket suction valves are secured in the space being tested. Open the overboard discharge, then the firemain actuation to the eductor (both from the remote location when applicable).	EOSS, DC Book, JFMM, Operators/Position Indicators IAW MIP 5000/005 and Table 2							
a. Did the overboard discharge valve fully open when operated from the remote location (from local position when no remote operator is installed)? Did all local and remote position indicators properly indicate valve position?								
b. Did the firemain actuation valve fully open when operated from the remote location (from local position when no remote operator is installed)? Did all local and remote position indicators properly indicate valve position?								
c. Do all firemain actuation gages (local and remote as applicable) properly indicate firemain pressure?								
d. Do all suction gages (local and remote as applicable) properly indicate suction?								
e. Are all suction gages (local and remote as applicable) calibrated IAW CNSF 181716ZMAR03 Para 2 (c)?								
f. Are local and remote firemain actuation and suction gages (as applicable) properly labeled according to function?								
g. Are the overboard and firemain actuation valves properly labeled according to their function?								
2. Secure the firemain actuation valve to the eductor and then secure the overboard discharge (both from the remote location when applicable).								
a. Did the firemain actuation fully shut when operated from the remote location (from local position when no remote operator is installed)? Did all local and remote position indicators (as applicable) properly indicate valve position?								
b. Did the overboard discharge fully shut								

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when operated from the remote location (from local position when no remote operator is installed)? Did all local and remote position indicators (as applicable) properly indicate valve position?								
<b>B. BULKHEAD CUTOUT OPERATIONAL DEMONSTRATION:</b>								
1. Did all bulkhead cutout valves fully open and shut when operated from the remote location (from local position if no remote operator is installed)? Do all local and remote position indicators (as applicable) properly indicate valve position?	EOSS, DC Book, JFMM Operators/Position Indicators IAW MIP 5000/005 and Table 2							
2. Are all bulkhead cutout valves properly labeled according to their function and valve identification number at both the local and remote location (as applicable)?	EOSS, DC Book, JFMM Operators/Position Indicators IAW MIP 5000/005 and Table 2							
<b>C. DRAINAGE SYSTEM VALVE LEAKAGE TESTING:</b>								
1. With the overboard discharge valve and all suction cutout/pocket and bulkhead cutout valves still shut, perform a leak test of the firemain actuation and overboard discharge valves.	EOSS, DC Book, JFMM Operators/Position Indicators IAW MIP 5000/005 and Table 2. See Table 1 for leak test MIPs Table 1, MRC A-11.							
a. Did the firemain actuation valve leak-by?	A-11							
b. Did the overboard discharge leak-by?	A-11							
2. After completion of the PMS check above in step 1, open the overboard discharge valve to relieve the pressure in the system and then shut the overboard discharge valve. Open the suction cutout valve. Open the remotely operable suction pocket valves the (both from the remote location when applicable). Open the local operated suction pocket valve(s) (valves without remote op. capabilities). Conduct a leak test of the Eductor check valve (hydraulic or swing) and suction pocket check valve.	EOSS, DC Book, JFMM Operators/Position Indicators IAW MIP 5000/005 and Table 2. See Table 1 for leak test MIPs Table 1, MRC A-8, A-10							
a. Did the suction cutout valve fully open when operated from the remote location (where applicable)? - Hydraulic/electrical/reach rods/Teleflex valve failed to fully open/close the valve. - MVHC system had a hydraulic leak at (_____). - Remote position indicating light was inop (open/closed). - Electrical Transition flag failed to cycle. - MCHV valve close/open selector valve worked backwards. (piped backwards). - Valve leaked during testing.								
b. [Remotely operable eductors only, Suction cutout valves without remote operators only] Was the suction cutout valve classified William and in the OPEN position in the "as found" condition? Was the valve position correctly noted in EOSS? - Hydraulic/electrical/reach rods/Teleflex valve failed to fully open/close the valve. - MVHC system had a hydraulic leak at (_____). - Remote position indicating light was inop (open/closed). - Electrical Transition flag failed to cycle. - MCHV valve close/open selector valve worked backwards. (piped backwards). - Valve leaked during testing.								
c. Did the remote operable suction pocket valves fully open from the remote location (from the local position when no remote operator is installed)? Do the local and remote valve position indicators (as applicable) work and indicate the correct valve position? - Hydraulic/electrical/reach rods/Teleflex valve failed to fully								

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open/close the valve. - MVHC system had a hydraulic leak at (_____). - Remote position indicating light was inop (open/closed). - Electrical Transition flag failed to cycle. - MCHV valve close/open selector valve worked backwards. (piped backwards). - Valve leaked during testing.								
d. Did the local suction pocket valves (valves without remote op. capabilities) fully open? Do the local valve position indicators (as applicable) work and indicate the correct valve position?								
e. Are the suction cutout valves and suction pocket valves properly labeled according to their function and valve identification number at both the local and remote location (as applicable)?								
f. Did firemain leak by the eductor system check valve and suction pocket lift check valve allowing free flow of seawater to the bilge?								
g. [Systems with unchecked 1½ inch sweep hose connections only] With suction main still pressurized, remove the 1½ inch connection cap and slowly open the cutout valve to check for leakage of the system [hydraulic or swing check] valve. Was there any flow of water from the hose connection indicating leak by of the system check valve?								
3. Following the completion of the PMS check in (2), ensure that the firemain actuation valve is shut and partially open the overboard discharge to relieve the pressure in the suction main. Shut the overboard discharge and the suction cutout and suction pocket valves from the remote location (from the local position when no remote operator is installed).								
a. Did the suction cutout valve fully shut when operated from the remote location (where applicable)? Do all local and remote valve position indicators properly indicate valve position?								
b. Did the suction pocket valve fully shut when operated from the remote location (from the local position when no remote operator is installed)? Do all local and remote valve position indicators (as applicable) properly indicate valve position?								
c. Are the suction cutout valves and suction pocket valves properly labeled according to their function and valve identification number at both the local and remote location (as applicable)?								
<b>E. MAIN DRAINAGE SPACE-TO-SPACE CROSS-CONNECT DEWATERING DEMONSTRATION.</b>								
1. Was the ship able to dewater a main space using a remote space eductor? "Farthest space to space i.e. AUX1 to 2MMR on a DDG, 1MMR to 3MMR on a CV" Switch directions.	EOSS CP. NR. ED							

A.	AOE-6 CLASS:	MIP 5290/012
B.	LHD-1 CLASS:	MIP 5290/010
C.	LSD-41 AND LSD-49 CLASS:	MIP 5291/002
D.	MCM-1 AND MHC-51 CLASS:	MIP 5291/003
E.	ARS-50 CLASS:	MIP 5290/008
F.	CG-47 AND DDG-51 CLASS:	MIP 5291/001
G.	DD-963 CLASS:	MIP 5290/002
H.	FFG-7 CLASS:	MIP 5290/001
I.	CVN-68 CLASS:	MIP 5290/006
J.	PC-1 CLASS:	MIP 5290/013
K.	ALL OTHER CLASSES:	MIP 5290/R01

A. MANUALLY OPERATED(Note 1): MIP 5000/005, MRC A-2  
B. PNEUMATIC OPERATED: MIP 5000/005, MRC A-1  
C. HYDRAULIC OPERATED: MIP 5000/005, MRC A-4  
D. ELECTRICALLY OPERATED: MIP 5000/005, MRC A-3

[illegible]

ASSESSOR(S): \_\_\_\_\_ DATE: \_\_\_\_\_